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DATE: Thursday, April 26, 2007

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The helical twisting power (HTP) of a chiral compound which induces a helically twisted superstructure in a liquid-crystalline mixture is given by the equation $HTP = (p \cdot c)^{-1} [\mu\text{m}^{-1}]$. In this equation, p denotes the helical pitch of the helically twisted phase in μm , and c denotes the concentration of the chiral compound (a value of 0.01 for c corresponds, for example, to a concentration of 1% by weight). Unless indicated otherwise, HTP values above and below relate to a temperature of 20°C and the commercially available neutral nematic TN host mixture MLC-6260 (Merck KGaA, Darmstadt).

The physical parameters were determined experimentally in accordance with "Licristal, Physical Properties Of Liquid Crystals, Description of the measurement methods", Ed. W. Becker, Merck KGaA, Darmstadt, revised edition, 1998.

Example 1

A cholesteric mixture C1 comprises 97.9% of a nematic component N1 consisting of

20	CCP-2OCF ₃	3.0 %	cl.p.	80.5
	CCP-3OCF ₃	3.0 %	Δn	0.1032--
	CCP-2F.F.F	10.0 %	n_e	1.5906
	CCP-3F.F.F	10.0 %	$\Delta \epsilon$	+12.4
25	CCP-5F.F.F	4.0 %	γ_1	176
	BCH-2F.F	7.0 %		
	BCH-3F.F	7.0 %		
	BCH-3F.F.F	13.0 %		
	CGU-2-F	7.0 %		
30	CGU-3-F	7.0 %		
	CCZU-2-F	3.0 %		
	CCZU-3-F	15.0 %		
	CCZU-5-F	3.0 %		
	CCGU-3-F	8.0 %		

35 and 2.1% of a chiral compound of the following formula:

0.25 μm